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This comprehensive and self-contained textbook will help students in acquiring an understanding of fundamental concepts and applications of engineering mechanics. With basic prior knowledge, the readers are guided through important concepts of engineering mechanics such as free body diagrams, principles of the transmissibility of forces, Coulomb's law of friction, analysis of forces in

members of truss and rectilinear motion in horizontal direction. Important theorems including Lami's theorem, Varignon's theorem, parallel axis theorem and perpendicular axis theorem are discussed in a step-by-step manner for better clarity. Applications of ladder friction, wedge friction, screw friction and belt friction are discussed in detail. The textbook is primarily written for undergraduate engineering students in India. Numerous theoretical questions, unsolved numerical problems and solved problems are included throughout the text to develop a clear understanding of the key principles of engineering mechanics. This text is the ideal resource for first year engineering undergraduates taking an introductory, single-semester course in engineering mechanics.

Additive manufacturing (AM) is one of the manufacturing processes that warrants the attention of industrialists, researchers, and scientists. AM has the ability to fabricate materials to produce parts with complex shapes without any theoretical restrictions combined with added functionalities. Selective laser melting (SLM), also known as laser-based powder bed processing (LPBF), is one of the main AM process that can be used to fabricate wide variety of materials that are Al-, Ti-, Fe-, Ni-, Co-, W-, Ag-, and Au-based, etc. However, several challenges need to be addressed systematically, such as development of new materials that suit the SLM process conditions so the process capabilities can be fully used to produce new properties in these materials. Other issues in the field are the lack of microstructure–property correlations, premature failure, etc. Accordingly, this Special Issue (book) focuses mainly on the microstructure–correlation in three different alloys: AlSi10Mg, Ti6Al4V, and 304L stainless steel, where six articles are presented. Hence, this Special Issue outlines microstructure–property correlations in the SLM processed materials and provides a value addition to the field of AM. This open access edited book brings together new research on the mechanisms by which maternal and reproductive health policies are formed and implemented in diverse locales around the world, from global policy spaces to sites of practice. The authors – both internationally respected anthropologists and new voices – demonstrate the value of ethnography and the utility of reproduction as a lens through which to generate rich insights into professionals’ and lay people’s intimate encounters with policy. Authors look closely at core policy debates in the history of global maternal health across six different continents, including: Women’s use of misoprostol for abortion in Burkina Faso The place of traditional birth attendants in global maternal health Donor-driven maternal health programs in Tanzania Efforts to integrate qualitative evidence in WHO maternal and child health policy-making Anthropologies of Global Maternal and Reproductive Health will engage readers interested in critical conversations about global health policy today. The broad range of foci makes it a valuable resource for teaching in medical anthropology, anthropology of reproduction, and interdisciplinary global health programs. The book will also find readership amongst critical public health scholars, health policy and systems researchers, and global public health practitioners.

The Manual of Engineering Drawing has long been recognised as the student and practising engineer's guide to producing engineering drawings that comply with ISO and British Standards. The information in this book is equally applicable to any CAD application or manual drawing. The second edition is fully in line with the requirements of the new British Standard BS8888: 2002, and will help engineers, lecturers and students with the

transition to the new standards. BS8888 is fully based on the relevant ISO standards, so this book is also ideal for an international readership. The comprehensive scope of this book encompasses topics including orthographic, isometric and oblique projections, electric and hydraulic diagrams, welding and adhesive symbols, and guidance on tolerancing. Written by a member of the ISO committee and a former college lecturer, the Manual of Engineering Drawing combines up-to-the-minute technical accuracy with clear, readable explanations and numerous diagrams. This approach makes this an ideal student text for vocational courses in engineering drawing and undergraduates studying engineering design / product design. Colin Simmons is a member of the BSI and ISO Draughting Committees and an Engineering Standards Consultant. He was formerly Standards Engineer at Lucas CAV. * Fully in line with the latest ISO Standards * A textbook and reference guide for students and engineers involved in design engineering and product design * Written by a former lecturer and a current member of the relevant standards committees

Fabulous facts about nature's most devoted dad, in an utterly charming picture book. Features an audio read-along! Can you imagine spending the winter outdoors in Antarctica without anything to eat? That's just what the male Emperor penguin does. While his mate is off swimming and catching loads of fish, he stands around in the freezing cold with an egg on his feet for two whole months, keeping it warm and waiting for it to hatch. Welcome to the story of the world's most devoted dad! Back matter includes an index. ZBIGNIEW OZIEWICZ University of Wroclaw, Poland December 1992

The First Max Born Symposium in Theoretical and Mathematical Physics, organized by the University of Wrodaw, was held in September 1991 with the intent that it would become an annual event. It is the outgrowth of the annual Seminars organized jointly since 1972 with the University of Leipzig. The name of the Symposia was proposed by Professor Jan Lopu szanski. Max Born, an outstanding German theoretical physicist, was born in 1883 in Breslau (the German name of Wrodaw) and educated here. The Second Max Born Symposium was held during the four days 24- 27 September 1992 in an old Sobotka Castle 30 km west of Wrodaw. The Sobotka Castle was built in the eleventh century. The dates engraved on the walls of the Castle are 1024, 1140, and at the last rebuilding, 1885. The castle served as a cloister until the end of the sixteenth century.

Statistics With Technology, Second Edition, is an introductory statistics textbook. It uses the TI-83/84 calculator and R, an open source statistical software, for all calculations. Other technology can also be used besides the TI-83/84 calculator and the software R, but these are the ones that are presented in the text. This book presents probability and statistics from a more conceptual approach, and focuses less on computation. Analysis and interpretation of data is more important than how to compute basic statistical values. This book provides the essentials to write a successful business plan. The represented methods and best practices have been approved over many years in practice with many management consulting engagements. The book is beautifully structured, it has a pragmatic emphasis and an autodidactic approach. The reader gets acquainted with the skills and competencies as well as tools, required for the planning and development of the business plan project. The digital transformation is in full swing and fundamentally changes how we live, work, and communicate with each other. From retail to finance, many industries see an inflow of new technologies, disruption

through innovative platform business models, and employees struggling to cope with the significant shifts occurring. This Fourth Industrial Revolution is predicted to also transform Logistics and Supply Chain Management, with delivery systems becoming automated, smart networks created everywhere, and data being collected and analyzed universally. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides a holistic overview of this vital subject clouded by buzz, hype, and misinformation. The book is divided into three themed-sections: Technologies such as self-driving cars or virtual reality are not only electrifying science fiction lovers anymore, but are also increasingly presented as cure-all remedies to supply chain challenges. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, the authors peel back the layers of excitement that have grown around new technologies such as the Internet of Things (IoT), 3D printing, Robotic Process Automation (RPA), Blockchain or Cloud computing, and show use cases that give a glimpse about the fascinating future we can expect. Platforms that allow businesses to centrally acquire and manage their logistics services disrupt an industry that has been relationship-based for centuries. The authors discuss smart contracts, which are one of the most exciting applications of Blockchain, Software as a Service (SaaS) offerings for freight procurement, where numerous data sources can be integrated and decision-making processes automated, and marine terminal operating systems as an integral node for shipments. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, insights are shared into the cold chain industry where companies respond to increasing quality demands, and how European governments are innovatively responding to challenges of cross-border eCommerce. People are a vital element of the digital transformation and must be on board to drive change. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution explains how executives can create sustainable impact and how competencies can be managed in the digital age - especially for sales executives who require urgent upskilling to remain relevant. Best practices are shared for organizational culture change, drawing on studies among senior leaders from the US, Singapore, Thailand, and Australia, and for managing strategic alliances with logistics service providers to offset risks and create cross-functional, cross-company transparency. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides realistic insights, a ready-to-use knowledge base, and a working vocabulary about current activities and emerging trends of the Logistics industry. Intended readers are supply chain professionals working for manufacturing, trading, and freight forwarding companies as well as students and all interested parties. Start a successful career in machining Metalworking is an exciting field that's currently experiencing a shortage of qualified machinists—and there's no time like the present to capitalize on the recent surge in manufacturing and production opportunities. Covering everything from lathe operation to actual CNC programming, Machining For Dummies provides you with everything it takes to make a career for yourself as a skilled machinist. Written by an expert offering real-world advice based on experience in the industry, this hands-on guide begins with basic topics like tools, work holding, and ancillary equipment, then goes into drilling, milling, turning, and other necessary metalworking processes. You'll also learn about robotics and

new developments in machining technology that are driving the future of manufacturing and the machining market. Be profitable in today's competitive manufacturing environment Set up and operate a variety of computer-controlled and mechanically controlled machines Produce precision metal parts, instruments, and tools Become a part of an industry that's experiencing steady growth Manufacturing is the backbone of America, and this no-nonsense guide will provide you with valuable information to help you get a foot in the door as a machinist. Outlining 10 steps in the personal selling process—from prospecting for new business to closing a deal—this guide explains the art of the sale. The importance of listening to customers, clarifying the difference between selling a product and a service, and emphasizing the importance of business ethics are revealed. Descriptions of the options available to those seeking a career in sales are included, as is an exploration of the impact of the sales profession on the economy, and a reminder that all jobs require some amount of selling. The ARML (American Regions Math League) Power Contest is truly a unique competition in which a team of students is judged on its ability to discover a pattern, express the pattern in precise mathematical language, and provide a logical proof of its conjectures. Just as a team of students can be self-directed to solve each problem set, a teacher, math team coach, or math circle leader could take these ideas and questions and lead students into problem solving and mathematical discovery. This book contains thirty-seven interesting and engaging problem sets from the ARML Power Contests from 1994 to 2013. They are generally extensions of the high school mathematics classroom and often connect two remote areas of mathematics. Additionally, they provide meaningful problem situations for both the novice and the veteran mathlete. Thomas Kilkelly has been a mathematics teacher for forty-three years. During that time he has been awarded several teaching honors and has coached many math teams to state and national championships. He has always been an advocate for more discovery, integration, and problem solving in the mathematics classroom. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession. Titles in this series are co-published with the Mathematical Sciences Research Institute (MSRI). This volume comprises the proceedings of the Second International Rangelands Congress held in Adelaide, Australia in May 1984, and includes some 350 contributions drawn from 43 different countries. The Congress addressed the problem of the conflict between land-users and the degradation of this valuable resource. Some 40% of the Earth's land surface is arid or alpine and therefore unsuitable for agricultural cultivation. Collectively, these lands are known as rangelands and in their natural state they constitute a habitat for grazing animals, both domestic and wild. Despite their low productivity, rangelands have been used for thousands of years as a source of food and fibre, but other uses such as mining, tourism, recreation and conservation are exerting increasing demands. The result is often conflict between land-users and degradation of the resource. Bringing together leading theorists, researchers and policy makers with expertise in using realist methods, this book is a definitive guide to putting realist methodologies into practice. Not just an overview of the field, this book looks to extend current debates and apply realist methods to

new and practical challenges in social research. Featuring practical, worked examples of how to turn theory into evidence, it empowers readers not just to understand realist methods, but to use them. It will help readers: - Negotiate the complexity of relational systems - Understand the importance and relevance of cumulative theory - Address concerns over data sources and quality - Be flexible and creative in realist approaches - Produce useful evidence for policy. Sophisticated and globally minded, this book is the perfect addition to the ongoing development and application of realist methods across evaluation, synthesis, and social research. "This is an excellent and much needed book. It has a clear and logical structure that leads you through the knowledge base needed to critically appraise and evaluate clinical research studies ... Each section has brief measurable learning outcomes to give the learning focus and particularly helpful is the "Jargon Busting" glossary placed at the end of each chapter ... This is the book I wish I had written." Christine Lorraine Carline, Senior Lecturer, Staffordshire University, Faculty of Health, UK "This short book covers all the major issues and perspectives with which health undergraduates must become familiar ... It is written in plain English with clear explanations and appropriate examples, along with exercises, articles and glossaries. For those students who approach the topic of research with trepidation, this book will be a welcome and painless introduction." David Shaw PhD CSci, The Open University, UK "The author has provided a text that is accessible to a wide range of health students and practitioners ... The discussions about how recent is recent evidence is a question that particularly vexes students and this book provides some guidance to the debate, whilst acknowledging there is no easy answer." Alan Williams, Lecturer, University of Nottingham, UK This handy book is an ideal companion for all health and nursing students looking for an accessible guide to research. Written in a friendly style, the book takes the stress out of research learning by offering realistic, practical guidance and demystifying research methods jargon. The book takes you through the main methods, tools and approaches used by health researchers and uses examples and case studies to highlight good and bad practice in research. The book also includes: Guidance on critical thinking and writing, to assist you in interpreting research articles and judging their worth Simple exercises, discussion points and reflective opportunities to help you construct logical arguments and apply research findings to practice Useful tips for surviving and exceeding in your course of study A section in each chapter on 'jargon busting' to help you keep on top of the terms and language used in research A Survival Guide for Health Research Methods is a great first book for students and practitioners new to the subject. It will also be of use to staff returning to practice and those with no prior research knowledge. Proceedings of the NATO Advanced Study Institute "Decadal Climate Variability: Dynamics and Predictability", held at Les Houches, France, February 13-24, 199 Investment criteria for agricultural and rural development projects. Economic impact of forestry projects. Economic analysis of watershed projects. Discounting procedures for project appraisals. Critics of narcology—as addiction medicine is called in Russia—decry it as being "backward," hopelessly behind contemporary global medical practices in relation to addiction and substance abuse, and assume that its practitioners lack both professionalism and expertise. On the basis of his research in a range of clinical institutions managing substance abuse in St. Petersburg, Eugene Raikhel increasingly came to understand that these

assumptions and critiques obscured more than they revealed. *Governing Habits* is an ethnography of extraordinary sensitivity and awareness that shows how therapeutic practice and expertise is expressed in the highly specific, yet rapidly transforming milieu of hospitals, clinics, and rehabilitation centers in post-Soviet Russia. Rather than interpreting narcology as a Soviet survival or a local clinical world on the wane in the face of globalizing evidence-based medicine, Raikhel examines the transformation of the medical management of alcoholism in Russia over the past twenty years. Raikhel's book is more than a story about the treatment of alcoholism. It is also a gripping analysis of the many cultural, institutional, political, and social transformations taking place in the post-Soviet world, particularly in Putin's Russia. *Governing Habits* will appeal to a wide range of readers, from medical anthropologists, clinicians, to scholars of post-Soviet Russia, to students of institutions and organizational change, to those interested in therapies and treatments of substance abuse, addiction, and alcoholism. Until now, research has given us only a limited understanding of how managers actually make sense of and apply management knowledge; how networks of interaction amongst managers help or hinder processes of knowledge diffusion and the sharing of best practice; and how these processes are all influenced both by the organisations in which managers act and by the professional communities of practice they belong to. *Managing Modern Healthcare* fills these important gaps in our understanding by drawing upon an in-depth study of management networks and practice in three healthcare organisations in the UK. It draws from the primary research a number of important and grounded lessons about how management networks develop and influence the spread of management knowledge and practice; how management training and development relates to the needs of managers facing challenging conditions; and how those conditions are themselves shaping the nature of management in healthcare. This book reveals how managers in practice are responding to the many contemporary challenges facing healthcare (and the NHS in particular) and how they are able or not to effectively exploit sources of knowledge, learning and best practice through the networks of practice they engage in to improve healthcare delivery and healthcare organisational performance. *Managing Modern Healthcare* makes a number of important theoretical contributions as well as practical recommendations. The theoretical and empirical contributions the book makes relate to wider work on networks and networking, management knowledge, situated learning/communities of practice, professionalization/professional identity and healthcare management more generally. The practical contribution comes in the form of recommendations for healthcare management practitioners and policy makers that are intended to impact upon and help enhance healthcare management delivery and performance. The search for a means to an end to apartheid erupts into conflict between a black township youth and his "old-fashioned" black teacher. The challenge of communication in planetary exploration has been unusual. The guidance and control of spacecraft depend on reliable communication. Scientific data returned to earth are irreplaceable, or replaceable only at the cost of another mission. In deep space, communications propagation is good, relative to terrestrial communications, and there is an opportunity to press toward the mathematical limit of microwave communication. Yet the limits must be approached warily, with reliability as well as channel capacity in mind. Further, the effects of

small changes in the earth's atmosphere and the interplanetary plasma have small but important effects on propagation time and hence on the measurement of distance. Advances are almost incredible. Communication capability measured in 18 bits per second at a given range rose by a factor of 10 in the 19 years from Explorer I of 1958 to Voyager of 1977. This improvement was attained through ingenious design based on the sort of penetrating analysis set forth in this book by engineers who took part in a highly detailed and amazingly successful program. Careful observation and analysis have told us much about limitations on the accurate measurement of distance. It is not easy to get busy people to tell others clearly and in detail how they have solved important problems. Joseph H. Yuen and the other contributors to this book are to be commended for the time and care they have devoted to explicating one vital aspect of a great adventure of mankind.

Statistical Questions in Evidence-based Medicine is a companion volume to the new edition of An Introduction to Medical Statistics and includes questions and answers which are complementary to the textbook. This new book takes a practical approach that develops an understanding of statistics and suggests appropriate questions to ask about research methods, figures and conclusions and whether they are evidence based. The book is a model of clarity and common sense in what is frequently an unnecessarily obscure area of science. It looks at the application of and provides a critique of statistics, encouraging an evidence-based approach to medical statistics. Through the critical evaluation of the published medical literature, the text will enable both students and researchers to understand the appropriate use of descriptive and inferential statistics in study design and when writing papers. The reproduction of short excerpts of material from published papers or summaries of their results are included and they are considered in a question and answer format. The reader can either read through the series of cases and follow through worked examples or work through the book themselves as a series of exercises. The questions are clearly graded, through the use of icons, in terms of difficulty into standard and postgraduate levels. This book will prove invaluable to students, medical researchers and doctors alike.

Globalization has fueled the growth of entrepreneurship. Starting a new venture involves risk taking as well as capital investment. This book delves into all the varied aspects of entrepreneurship. The impact of economic policies, finances, opportunity and capacity are some of the topics covered in this text. It will prove beneficial to students, scholars, professionals, aspiring entrepreneurs, etc.

Learn how to use Auto Layout! Auto Layout is Apple's elegant solution to making your user interfaces flexible and adaptable. It can be daunting to learn to use its true power without someone to guide you. That's where Auto Layout by Tutorials comes to the rescue! This book will be your guide as you explore and master the many capabilities of Auto Layout.

Who This Book Is For This book is for iOS developers of all skill levels, from those just getting started building user interfaces to the experienced hands who want to get more from Auto Layout.

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Interface Builder: Learn to use Interface Builder to construct and maintain your user interfaces.

Stack Views and Scroll Views: Learn how these special view types interact with Auto Layout and how best to utilize them in your apps.

Views: Discover how to make your user interface dynamically adapt to its content.

Animating Constraints: See how to animate your Auto Layout constraints to provide feedback, focus user attention and

improve navigation. Adaptive Layout: Learn to use Auto Layout to make adjustments for screen size, orientation, Dynamic Type size and more. Resolving Common Issues: Discover how to investigate when things go awry and learn how to resolve Auto Layout conflicts. One thing you can count on: After reading this book, you'll be prepared to harness the full power of Auto Layout in all of your apps. About the Tutorial Team The Tutorial Team is a group of app developers and authors who write tutorials at the popular website raywenderlich.com. We take pride in making sure each tutorial we write holds to the highest standards of quality. We want our tutorials to be well written, easy to follow, and fun. If you've enjoyed the tutorials we've written in the past, you're in for a treat. The tutorials we've written for this book are some of our best yet - and this book contains detailed technical knowledge you simply won't be able to find anywhere else. Troubleshooting Analog Circuits is a guidebook for solving product or process related problems in analog circuits. The book also provides advice in selecting equipment, preventing problems, and general tips. The coverage of the book includes the philosophy of troubleshooting; the modes of failure of various components; and preventive measures. The text also deals with the active components of analog circuits, including diodes and rectifiers, optically coupled devices, solar cells, and batteries. The book will be of great use to both students and practitioners of electronics engineering. Other professionals dealing with electronics will also benefit from the text, such as electric technicians. "This project aimed to collect and critically review the existing evidence on practices relevant to improving patient safety"--P. v. This concise revision text brings together the fundamentals of the basic sciences required for Obstetrics and Gynaecology trainees to pass the MRCOG Part 1 exam. A note-style format and over 100 illustrations make this the ideal revision guide to passing the exam. Summary Introducing Data Science teaches you how to accomplish the fundamental tasks that occupy data scientists. Using the Python language and common Python libraries, you'll experience firsthand the challenges of dealing with data at scale and gain a solid foundation in data science. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Many companies need developers with data science skills to work on projects ranging from social media marketing to machine learning. Discovering what you need to learn to begin a career as a data scientist can seem bewildering. This book is designed to help you get started. About the Book Introducing Data Science Introducing Data Science explains vital data science concepts and teaches you how to accomplish the fundamental tasks that occupy data scientists. You'll explore data visualization, graph databases, the use of NoSQL, and the data science process. You'll use the Python language and common Python libraries as you experience firsthand the challenges of dealing with data at scale. Discover how Python allows you to gain insights from data sets so big that they need to be stored on multiple machines, or from data moving so quickly that no single machine can handle it. This book gives you hands-on experience with the most popular Python data science libraries, Scikit-learn and StatsModels. After reading this book, you'll have the solid foundation you need to start a career in data science. What's Inside Handling large data Introduction to machine learning Using Python to work with data Writing data science algorithms About the Reader This book assumes you're comfortable reading code in Python or a similar

language, such as C, Ruby, or JavaScript. No prior experience with data science is required. About the Authors Davy Cielen, Arno D. B. Meysman, and Mohamed Ali are the founders and managing partners of Optimately and Maiton, where they focus on developing data science projects and solutions in various sectors.

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Successful entrepreneurship requires a specialized mix of innovation, drive, business acumen, and communication; an entrepreneur sees the potential and pitfalls in any idea, and understands the product, the market, and the business climate well enough to make smart decisions for the venture. This book is designed to go beyond the nuts and bolts of entrepreneurship and help students develop the critical foundation referred to as “entrepreneurial thinking.” Organized to align with the typical flow of development, the text allows students to develop their own ideas alongside each lesson. Coverage of goals, opportunities, and resources includes detailed discussion of venture funding, financial resources, and the relationships needed to get an idea off of the ground; subsequent chapters include clear guidance on keeping the momentum going through product development, enterprise growth, value creation, and the evolution of the business model. Based on the latest research and providing a truly global perspective, this book gives students a comprehensive, real-world foundation in entrepreneurship today. Now in its 5th edition this comprehensive, practically focused and highly accessible text explores the contexts, choices and strategies facing the small business venture, including extensive coverage of planning a new venture. Pedagogical features developed in response to market feedback include running case material to explore the same case situation from a number of different but interrelated angles, annotated further reading, new chapter-end real world case studies, learning objectives and linked chapter summaries – providing a student- and lecturer-friendly learning environment. Students on modules such as Personal Development and Effectiveness, Study Skills, Management Skills, Business Skills, Business Communication, Business Awareness, Managing Oneself and Others at – for example – BABS/BABA, HND/HNC, DMS, MBA levels will all find this a hugely valuable text through study and working life. The diversity of human behavior is one of the most fascinating aspects of human biology. What makes our individual attitudes, lifestyle and personalities different has been the subject of many physiological and psychological theories. In this book the emphasis is on understanding the genetic and environmental causes of these differences. Genes, Culture, and Personality is an expansive account of the state of current knowledge about the causes of individual differences in personality and social attitudes. Based on almost two decades of empirical research, the authors have made a significant contribution to the debate on genetic and cultural inheritance in human behavior. The book should be required reading for psychologists, psychiatrists, sociobiologists, and geneticists. This dictionary is aimed primarily at the beginners entering the new discipline of Pharmaceutical Medicine, an area comprising aspects of toxicology, pharmacology, pharmaceuticals, epidemiology, statistics, drug regulatory and legal affairs, medicine and marketing. But also more experienced colleagues in departments engaged in clinical development as well as researchers and marketing experts in the

pharmaceutical industry will find concise and up-to-date information. The book is completed by a list of about 1000 abbreviations encountered in pharmaceutical medicine and a compilation of important addresses of national and international health authorities. A condensed version of the critically acclaimed "Surgery: Basic Science and Clinical Evidence." Essential Practice of Surgery provides a state-of-the-art, evidence-based approach to surgery for surgeons, residents and medical students. The book is divided into 8 comprehensive sections, providing the most succinct coverage of critical topics: Care of the Surgical Patient; Gastrointestinal & Abdominal Disease; Endocrine Surgery; Vascular Surgery; Cardiothoracic Surgery; Transplantation; Cancer; and Associated Disciplines. Over 250 illustrations and 340 tables, including 62 evidence-based tables, complement the text. The creation of a Fifth Edition is proof of the continuing vitality of the book's contents, including: tool design and materials; jigs and fixtures; workholding principles; die manipulation; inspection, gaging, and tolerances; computer hardware and software and their applications; joining processes, and pressworking tool design. To stay abreast of the newer developments in design and manufacturing, every effort has been made to include those technologies that are currently finding applications in tool engineering. For example, sections on rapid prototyping, hydroforming, and simulation have been added or enhanced. The basic principles and methods discussed in Fundamentals of Tool Design can be used by both students and professionals for designing efficient tools. This is a comprehensive exposition of topics covered by the American Mathematical Society's classification "Global Analysis", dealing with modern developments in calculus expressed using abstract terminology. It will be invaluable for graduate students and researchers embarking on advanced studies in mathematics and mathematical physics. This book provides a comprehensive coverage of modern global analysis and geometrical mathematical physics, dealing with topics such as: structures on manifolds, pseudogroups, Lie groupoids, and global Finsler geometry; the topology of manifolds and differentiable mappings; differential equations (including ODEs, differential systems and distributions, and spectral theory); variational theory on manifolds, with applications to physics; function spaces on manifolds; jets, natural bundles and generalizations; and non-commutative geometry. - Comprehensive coverage of modern global analysis and geometrical mathematical physics - Written by world-experts in the field - Up-to-date contents This book offers an introduction to the research in several recently discovered and actively developing mathematical and mathematical physics areas. It focuses on: 1) Feynman integrals and modular functions, 2) hyperbolic and Lorentzian Kac-Moody algebras, related automorphic forms and applications to quantum gravity, 3) superconformal indices and elliptic hypergeometric integrals, related instanton partition functions, 4) moonshine, its arithmetic aspects, Jacobi forms, elliptic genus, and string theory, and 5) theory and applications of the elliptic Painleve equation, and aspects of Painleve equations in quantum field theories. All the topics covered are related to various partition functions emerging in different supersymmetric and ordinary quantum field theories in curved space-times of different ($d=2,3,\dots,6$) dimensions. Presenting multidisciplinary methods (localization, Borchers products, theory of special functions, Cremona maps, etc) for treating a range of partition functions, the book is intended for graduate students and young postdocs interested in the interaction

between quantum field theory and mathematics related to automorphic forms, representation theory, number theory and geometry, and mirror symmetry.

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